



## CITY OF ATLANTA

SUITE 1900

55 TRINITY AVENUE, SW

ATLANTA, GA 30303

(404) 330-6204 Fax: (404) 658-7705

Internet Home Page: [www.atlantaga.gov](http://www.atlantaga.gov)

Kasim Reed  
Mayor

DEPARTMENT OF PROCUREMENT  
Adam L. Smith, Esq., CPPO, CPPB, CPPM, CPP  
Chief Procurement Officer  
[asmith@atlantaga.gov](mailto:asmith@atlantaga.gov)

July 8, 2014

### INTERESTED BIDDERS:

**Re: FC-7467, West Crossover Improvements**

Attached is one (1) copy of **Addendum No. 2**, which is hereby made a part of the above-referenced project.

For additional information, please contact the following personnel for the respective solicitation: for FC-7467, Mr. Sherif Yassin, Contracting Officer, at (404) 330-6698, or via email at [syassin@atlantaga.gov](mailto:syassin@atlantaga.gov).

Sincerely,



Adam L. Smith

ALS: ssy

**Addendum No. 2**

**Re: FC-7467, West Crossover Improvements**

July 8, 2014

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This Addendum forms a part of the Invitation to Bid and modifies the original solicitation package as follows:

- **Questions and Answers; and**
- **Revision to Exhibit E, Scope of Work and Technical Specifications.**

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Bids are due **Thursday, July 24, 2014**, and should be time stamped no later than **2:00 p.m. EST** on this day, and delivered to the address below:

Adam L. Smith, Esq., CPPO, CPPB, CPPM, CPP  
Chief Procurement Officer  
Department of Procurement  
55 Trinity Avenue, S.W.  
City Hall South, Suite 1900  
Atlanta, Georgia 30303

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**\*\*\*All other information remains unchanged\*\*\***

**Addendum No. 2**

**Re: FC-7467, West Crossover Improvements**

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**Acknowledgement of Addendum No. 2**

Bidders must sign below and return this form with its Bid to the Department of Procurement, 55 Trinity Avenue, City Hall South, Suite 1900, Atlanta, Georgia 30303 as acknowledgement of receipt of this addendum on this \_\_\_\_\_ day of \_\_\_\_\_, 2014.

\_\_\_\_\_  
Legal Company Name of Respondent

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

Addendum No. 2  
FC-7467, West Crossover Improvements

The following questions and/or clarifications were requested by various Firms:

1. **Question:** Do we include the dollar amounts in allowances A – E in our total bid price?

**Answer:** All "ALLOWANCE" amounts are to be included in the "TOTAL BASE BID".

2. **Question:** If we include allowances in our total bid price, are we to also include the allowance amounts on EBO-3 in the "total bid amount"? We feel there is no way to forecast percentages of minority participation in the allowances. If we include allowances on EBO-3 in the "Total bid Amount" then it is going to unfairly deflate the actual minority participation.

**Answer:** The Mayor's Office of Contract Compliance (OCC) recommends that form EBO -3 should reflect the bidders EBO participation as to its base bid amount rather than its "Total Bid Amount" as reflected on the last column "percentage of Total Bid amount" of the form. Any EBO participation achieved as part of the allowance will be credited if the work is assigned and performed.

3. **Question:** At the new FIDS locations who furnishes the support brackets below the ceiling for the monitors to attach to? (Sheet A8.1.11)

**Answer:** The support brackets below the ceiling on sheet A8.1.11 are provided by the prime contractor and can be acquired from Forms + Surfaces (forms-surfaces.com). This system is the DOA's standard and is the basis of design. It was first used in concourse F and is now used throughout the Airport as the DOA standard.

4. **Question:** At the new Baggage Carousel Locator Signs locations who furnishes and who installs the rod & clip to attach the displays to the structural steel? (Detail 4/A8.1.06)

**Answer:** The rod and clip to support the signage is provided and installed by the prime contractor.

5. **Question:** Please confirm that the wood veneer tile ceiling shown on A6.1.03 is intended to be Armstrong Silhouette XL with a 1/4" reveal or equal.

**Answer:** The wood veneer tile ceiling identified A6.1.03 is equal to Armstrong Woodworks Vector panel system #6482 on 15/16" Prelude heavy duty suspension system. The tile is type W1 (unperforated). The joint width is 1/4". The wood veneer to match "Washington Apple" by Nevamar (equal to existing wood panels on Gridline 12). The color of the 15/16" Prelude suspension system to be "Gun Metal Grey (MY)". Refer to attached revised Specification Section 095114.

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FC-7467, West Crossover Improvements

6. **Question:** Please define what is considered an Essential Subcontractor for Exhibit C – Form B. Essential Subcontractor Qualification Statement. Given the hard bid nature of this project, gathering this form for every subcontractor bidding the project prior to bid submission is difficult. Would it be acceptable to provide upon award or narrow the “essential subcontractor” trades (i.e MEP and tile flooring subcontractors only)?

**Answer:** It is the Contractor's responsibility as to designating a Subcontractor as “Essential”. Special Condition No. 9.2 provides guidance regarding non-essential subcontractors.

7. **Question:** On pages 30 – 33 of 197 there is a Payment Bond and Performance Bond form that is not on the check list. Please confirm these forms do not need to be provided at the time of bid submission but gather at award?

**Answer:** Bidders need to complete all required forms in their entirety and the winning bidder will later have to provide completed Payment and Performance Bond forms.

8. **Question:** Is there any way that you could issue the bid forms (Exhibit C & Forms A & A-1) as either Word or Excel (preferable) formats?

**Answer:** No.

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FC-7467, West Crossover Improvements

**MODIFICATIONS ARE INDICATED IN BOLD ITALIC FACE TYPE**  
**REVISION NO. 1**

The following are changes and/or modifications to the Contract documents.

1. REVISION TO EXHIBIT E, SCOPE OF WORK AND TECHNICAL  
SPECIFICATIONS

- a. **Delete:** Technical Specifications 095113-1, Acoustical Ceilings, dated April 30, 2014, in its entirety.

**Replace with:** Attached "***Technical Specifications 095113-1, Acoustical Ceilings, dated July 4, 2014***".

## **PART 1 - GENERAL**

### **1.01 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

### **1.02 SUMMARY**

- A. This Section includes acoustical panels and exposed suspension systems for ceilings.
- B. Products furnished, but not installed under this Section, include anchors, clips, and other ceiling attachment devices to be cast in concrete at ceilings.

### **1.03 DEFINITIONS**

- A. AC: Articulation Class.
- B. CAC: Ceiling Attenuation Class.
- C. LR: Light Reflectance coefficient.
- D. NRC: Noise Reduction Coefficient.

### **1.04 SUBMITTALS**

- A. Product Data: For each type of product indicated.
- B. Coordinate Drawings: Reflected ceiling plans drawn to scale and coordinating penetrations and ceiling-mounted items. Show the following:
  - 1. Ceiling suspension members.
  - 2. Method of attaching hangers to building structure.
    - a. Furnish layouts for cast-in-place anchors, clips, and other ceiling attachment devices whose installation is specified in other Sections.
  - 3. Ceiling-mounted items including lighting fixtures, diffusers, grilles, speakers, sprinklers, access panels, and special moldings.
  - 4. Minimum Drawing Scale: 1/4 inch = 1 foot (1:48).
- C. Samples for Initial Selection: For components with factory-applied color finishes.

- D. Samples for Verification: For each component indicated and for each exposed finish required, prepared on Samples of size indicated below.
  - 1. Acoustical Panel: Set of full-size Samples of each type, color, pattern, and texture.
  - 2. Exposed Suspension System Members, Moldings, and Trim: Set of 12-inch-long Samples of each type, finish, and color.
- E. Qualification Data: For testing agency.
- F. Field quality-control test reports.
- G. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for each acoustical panel ceiling.
- H. Research/Evaluation Reports: For each acoustical panel ceiling and components and anchor type.
- I. Maintenance Data: For finishes to include in maintenance manuals.

#### **1.05 QUALITY ASSURANCE**

- A. Acoustical Testing Agency Qualifications: An independent testing laboratory, or an NVLAP-accredited laboratory, with the experience and capability to conduct the testing indicated, as documented according to ASTM E 548. NVLAP-accredited laboratories must document accreditation, based on a "Certificate of Accreditation" and a "Scope of Accreditation" listing the test methods specified.
- B. Source Limitations:
  - 1. Acoustical Ceiling Panel: Obtain each type through one source from a single manufacturer.
  - 2. Suspension System: Obtain each type through one source from a single manufacturer.
- C. Source Limitations: Obtain each type of acoustical ceiling panel and supporting suspension system through one source from a single manufacturer.
- D. Seismic Standard: Provide acoustical panel ceilings designed and installed to withstand the effects of earthquake motions according to the following:
  - 1. Standard for Ceiling Suspension Systems Requiring Seismic Restraint: Comply with ASTM E 580.
  - 2. CISCA's Recommendations for Acoustical Ceilings: Comply with CISCA's "Recommendations for Direct-Hung Acoustical Tile and Lay-in Panel Ceilings--Seismic Zones 0-2."



3. CISCA's Guidelines for Systems Requiring Seismic Restraint: Comply with CISCA's "Guidelines for Seismic Restraint of Direct-Hung Suspended Ceiling Assemblies--Seismic Zones 3 & 4."
  4. UBC Standard 25-2, "Metal Suspension Systems for Acoustical Tile and for Lay-in Panel Ceilings."
- E. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Management and Coordination."

#### **1.06 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver acoustical panels, suspension system components, and accessories to Project site in original, unopened packages and store them in a fully enclosed, conditioned space where they will be protected against damage from moisture, humidity, temperature extremes, direct sunlight, surface contamination, and other causes.
- B. Before installing acoustical panels, permit them to reach room temperature and a stabilized moisture content.
- C. Handle acoustical panels carefully to avoid chipping edges or damaging units in any way.

#### **1.07 PROJECT CONDITIONS**

- A. Environmental Limitations: Do not install acoustical panel ceilings until spaces are enclosed and weatherproof, wet work in spaces is complete and dry, work above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
  1. Pressurized Plenums: Operate ventilation system for not less than 48 hours before beginning acoustical panel ceiling installation.

#### **1.08 COORDINATION**

- A. Coordinate layout and installation of acoustical panels and suspension system with other construction that penetrates ceilings or is supported by them, including light fixtures, HVAC equipment, fire-suppression system, and partition assemblies.

#### **1.09 EXTRA MATERIALS**

- A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents. Deliver extra material (attic stock) to location directed by owner.

1. Acoustical Ceiling Panels: Full-size panels equal to 5 percent of quantity installed.
2. Suspension System Components: Quantity of each exposed component equal to 2.0 percent of quantity installed.

## **PART 2 - PRODUCTS**

### **2.01 ACOUSTICAL PANELS, GENERAL**

- A. Acoustical Panel Standard: Provide manufacturer's standard panels of configuration indicated that comply with ASTM E 1264 classifications as designated by types, patterns, acoustical ratings, and light reflectance, unless otherwise indicated.
  1. Mounting Method for Measuring NRC: Type E-400; plenum mounting in which face of test specimen is 15-3/4 inches away from test surface per ASTM E 795.
- B. Acoustical Panel Colors and Patterns: Match appearance characteristics indicated for each product type.
  1. Where appearance characteristics of acoustical panels are indicated by referencing pattern designations in ASTM E 1264 and not manufacturers' proprietary product designations, provide products selected by Architect from each manufacturer's full range that comply with requirements indicated for type, pattern, color, light reflectance, acoustical performance, edge detail, and size.
- C. Coating-Based Antimicrobial Treatment: Provide acoustical panels with face and back surfaces coated with antimicrobial treatment consisting of manufacturer's standard formulation with fungicide added to inhibit growth of mold and mildew and showing no mold or mildew growth when tested according to ASTM D 3273.
- D. Panel-Based Antimicrobial Treatment: Provide acoustical panels treated with manufacturer's standard antimicrobial solution that inhibits fungus, mold, mildew, and gram-positive and gram-negative bacteria.

### **2.02 WATER-FELTED, MINERAL-BASE ACOUSTICAL PANELS FOR ACOUSTICAL PANEL CEILING**

- A. Product:
  1. Ultima PN 1782 by Armstrong.
- B. Classification: Provide panels complying with ASTM E 1264 for Type III, mineral base with painted finish.
- C. Color: White.

- D. LR: Not less than 0.90.
- E. NRC: Not less than 0.70.
- F. CAC: Not less than 35.
- G. Edge Detail: Tegular Edge
- H. Thickness: 3/4 inch.
- I. Size: 24 by 24 inches.
- J. Antimicrobial Treatment: Bioblock Plus Coating based.

## **2.03 METAL SUSPENSION SYSTEMS, GENERAL**

- A. Metal Suspension System Standard: Provide manufacturer's standard direct-hung metal suspension systems of types, structural classifications, and finishes indicated that comply with applicable requirements in ASTM C 635.
- B. Finishes and Colors, General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes. Provide manufacturer's standard factory-applied finish for type of system indicated. Match existing grid color.
- C. Attachment Devices: Size for five times the design load indicated in ASTM C 635, Table 1, "Direct Hung," unless otherwise indicated.
  - 1. Anchors in Concrete: Anchors of type and material indicated below, with holes or loops for attaching hangers of type indicated and with capability to sustain, without failure, a load equal to five times that imposed by ceiling construction, as determined by testing per ASTM E 488 or ASTM E 1512 as applicable, conducted by a qualified testing and inspecting agency.
    - a. Type: Cast-in-place anchors.
    - b. Type: Post-installed expansion anchors.
    - c. Type: Post-installed adhesive anchors.
    - d. Corrosion Protection: Carbon-steel components zinc plated to comply with ASTM B 633, Class Fe/Zn 5 for Class SC 1 service condition.
  - 2. Power-Actuated Fasteners in Concrete: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with clips or other accessory devices for attaching hangers of type indicated, and with capability to sustain, without failure, a load equal to 10 times that imposed by ceiling construction, as determined by testing per ASTM E 1190, conducted by a qualified testing and inspecting agency.

- D. Wire Hangers, Braces, and Ties: Provide wires complying with the following requirements:
1. Zinc-Coated Carbon-Steel Wire: ASTM A 641, Class 1 zinc coating, soft temper.
  2. Nickel-Copper-Alloy Wire: ASTM B 164, nickel-copper-alloy UNS No. N04400.
  3. Size: Select wire diameter so its stress at three times hanger design load (ASTM C 635, Table 1, "Direct Hung") will be less than yield stress of wire, but provide not less than 0.106-inch- diameter wire.
- E. Hanger Rods: Mild steel, zinc coated or protected with rust-inhibitive paint.
- F. Angle Hangers: Angles with legs not less than 7/8 inch wide; formed with 0.04-inch-thick, galvanized steel sheet complying with ASTM A 653, G90 coating designation; with bolted connections and 5/16-inch- diameter bolts.
- G. Seismic Struts: Manufacturer's standard compression struts designed to accommodate seismic forces.
- H. Seismic Clips: Manufacturer's standard seismic clips designed and spaced to secure acoustical panels in-place.

#### **2.04 METAL SUSPENSION SYSTEM FOR ACOUSTICAL PANEL CEILING**

- A. Products:
1. Suprafine XL by Armstrong to match adjacent T-bar in width i.e. 9/16".
- B. Narrow-Face, Capped, Double-Web, Steel Suspension System: Main and cross runners roll formed from cold-rolled steel sheet, pre-painted, electrolytically zinc coated, or hot-dip galvanized according to ASTM A 653, not less than G30 coating designation, with prefinished metal caps on flanges.
1. Structural Classification: Heavy-duty system.
  2. End Condition of Cross Runners: Override (stepped) type.
  3. Face Design: Flat, flush.
  4. Cap Material: Steel cold-rolled sheet.
  5. Cap Finish: Painted white.

#### **2.05 METAL EDGE MOLDINGS AND TRIM**

- A. Roll-Formed Sheet-Metal Edge Moldings and Trim: Type and profile indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations that fit acoustical panel edge details and suspension systems indicated; formed from sheet metal of same material, finish, and color as that used for exposed flanges of suspension system runners.

1. For lay-in panels with reveal edge details, provide stepped edge molding that forms reveal of same depth and width as that formed between edge of panel and flange at exposed suspension member.
2. For circular penetrations of ceiling, provide edge moldings fabricated to diameter required to fit penetration exactly.
3. For narrow-face suspension systems, provide suspension system and manufacturer's standard edge moldings that match width and configuration of exposed runners.

## **2.06 WOOD VENEER PANELS FOR WOOD VENEER TILE CEILING**

- A. Product:
1. FSC-certified WoodWorks Vector #6482 by Armstrong.
- B. Classification: Provide panels complying with ASTM E 1264 for Type III, composite panel with clear coat finish.
- C. Color: The wood veneer to match "Washington Apple" by Nevamar (equal to existing wood panels on Gridline 12).
- D. Perforation: W1 (Unperforated).
- E. Edge Detail: Vector Edge with 1/4" joint width.
- F. Thickness: 3/4 inch.
- G. Size: 24 by 48 inches.

## **2.07 METAL SUSPENSION SYSTEM FOR WOOD VENEER TILE CEILING**

- A. Products:
1. 15/16" Prelude by Armstrong.
- B. Narrow-Face, Capped, Double-Web, Steel Suspension System: Main and cross runners roll formed from cold-rolled steel sheet, pre-painted, electrolytically zinc coated, or hot-dip galvanized according to ASTM A 653, not less than G30 coating designation, with prefinished metal caps on flanges.
1. Structural Classification: Heavy-duty system.
  2. End Condition of Cross Runners: Override (stepped) type.
  3. Face Design: Flat, flush.
  4. Cap Material: Steel cold-rolled sheet.
  5. Cap Finish: Painted "Gun Metal Grey (MY)".

## **PART 3 - EXECUTION**

### **3.01 EXAMINATION**

- A. Examine substrates, areas, and conditions, including structural framing to which acoustical panel ceilings attach or abut, with Installer present, for compliance with requirements specified in this and other Sections that affect ceiling installation and anchorage and with requirements for installation tolerances and other conditions affecting performance of acoustical panel ceilings.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### **3.02 PREPARATION**

- A. Measure each ceiling area and establish layout of acoustical panels to balance border widths at opposite edges of each ceiling. Avoid using less-than-half-width panels at borders, and comply with layout shown on reflected ceiling plans.

### **3.03 INSTALLATION, GENERAL**

- A. General: Install acoustical panel ceilings to comply with ASTM C 636 and seismic requirements indicated, per manufacturer's written instructions and Cisca's "Ceiling Systems Handbook."
- B. Suspend ceiling hangers from building's structural members and as follows:
  - 1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structure or of ceiling suspension system.
  - 2. Splay hangers only where required to miss obstructions; offset resulting horizontal forces by bracing, countersplaying, or other equally effective means.
  - 3. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with location of hangers at spacings required to support standard suspension system members, install supplemental suspension members and hangers in form of trapezes or equivalent devices. Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced standards and publications.
  - 4. Secure wire hangers to ceiling suspension members and to supports above with a minimum of three tight turns. Connect hangers directly either to structures or to inserts, eye screws, or other devices that are secure and appropriate for substrate and that will not deteriorate or otherwise fail due to age, corrosion, or elevated temperatures.
  - 5. Secure flat, angle, channel, and rod hangers to structure, including intermediate framing members, by attaching to inserts, eye screws, or other devices that are secure and appropriate for both structure to which hangers are attached and type

- of hanger involved. Install hangers in a manner that will not cause them to deteriorate or fail due to age, corrosion, or elevated temperatures.
6. Do not support ceilings directly from permanent metal forms or floor deck. Fasten hangers to cast-in-place hanger inserts, post-installed mechanical or adhesive anchors, or power-actuated fasteners that extend through forms into concrete.
  7. Do not attach hangers to steel deck tabs.
  8. Do not attach hangers to steel roof deck. Attach hangers to structural members.
  9. Space hangers not more than 48 inches o.c. along each member supported directly from hangers, unless otherwise indicated; provide hangers not more than 8 inches from ends of each member.
- C. Install edge moldings and trim of type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical panels.
1. Do not use exposed fasteners, including pop rivets, on moldings and trim.
- D. Install suspension system runners so they are square and securely interlocked with one another. Remove and replace dented, bent, or kinked members.
- E. Install acoustical panels with undamaged edges and fit accurately into suspension system runners and edge moldings. Scribe and cut panels at borders and penetrations to provide a neat, precise fit.
1. For reveal-edged panels on suspension system runners, install panels with bottom of reveal in firm contact with top surface of runner flanges.
  2. For reveal-edged panels on suspension system members with box-shaped flanges, install panels with reveal surfaces in firm contact with suspension system surfaces and panel faces flush with bottom face of runners.

### **3.04 FIELD QUALITY CONTROL**

- A. Testing Agency: Owner will engage a qualified independent testing and inspecting agency to perform field tests and inspections and to prepare test reports.
- B. Testing Services: Testing and inspecting of completed installations of acoustical panel ceiling hangers shall take place in successive stages, in areas of extent and using methods as follows. Do not proceed with installations of acoustical panel ceiling hangers for the next area until test results for previously completed installations of acoustical panel ceiling hangers show compliance with requirements.
- C. Extent of Each Test Area: When installation of ceiling suspension systems on each floor has reached 20 percent completion but no panels have been installed.
1. Within each test area, testing agency will select 1 of every 10 power-actuated fasteners and post-installed anchors used to attach hangers to concrete and will test them for 200 lbf of tension; it will also select one of every 2 post-installed anchors used to attach bracing wires to concrete and will test them for 440 lbf of tension.

- 2. When testing discovers fasteners and anchors that do not comply with requirements, testing agency will test those anchors not previously tested until 20 pass consecutively and then will resume initial testing frequency.
- D. Remove and replace acoustical panel ceiling hangers where test results indicate that they do not comply with specified requirements.
- E. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

**3.05 CLEANING**

- A. Clean exposed surfaces of acoustical panel ceilings, including trim, edge moldings, and suspension system members. Comply with manufacturer's written instructions for cleaning and touchup of minor finish damage. Remove and replace ceiling components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

**END OF SECTION 09 51 13**